MITCHSET

Chloride Free Set Accelerating Admixture For Concrete & Mortars



DESCRIPTION

MITCHSET is a liquid admixture which is added to mortars and concrete during production in order to accelerate their setting and hardening to quickly attain increased mechanical resistance.

MITCHSET brings down setting times in general and specially under cold weather, leading to early high and ultimate increased strengths. In addition, it reduces bleed and segregation while improves workability.

MITCHSET does not contain any chloride or nitrate ions and can be used for RCC construction. The reactive components in **MITCHSET** react with the cement particles in the mix to accelerate the hardening process thereby leading to an increase in the early strength of concrete.

MITCHSET meets the requirements of BS EN 934-2, BS 5075 Part 1 & ASTM C-494, Type C accelerating admixture.

USES

- To accelerate the stiffening and early strength gain of Portland cement concretes and mortars
- Typical applications for concrete or mortar placed in cold weather
- Ready-mix concrete
- Precast concrete
- · Pre-stressed concrete
- Grouts
- Concrete pavement repairs
- Repairs of the industrial floors
- Repairs of concrete slabs and flat members
- Early de-stripping in cold weather

BENEFITS AND FEATURES

- Particularly effective in assisting to offset the delaying effect of low temperatures on setting and strength gain.
- If used in conjunction with superplasticisers the combination of early set and strength gains achieved can enable double casting in a single shift.
- Accelerated setting reduces the risk of damage to fresh concrete from freezing.
- Chloride free, safe for use in reinforced concrete.
- The efficiency of **MITCHSET** is particularly useful where fast stripping of the moulds is required.
- Faster finishing operations on flatwork surfaces.
- Earlier post-tensioning.
- Use as a replacement for steam curing to save energy costs.
- Use as a replacement for Type III cement.
- Insulation and heating costs for curing time can be reduced.

- Earlier stripping and reuse of forms increases labor productivity.
- Accelerated strength gain allows earlier structural use and speeds completion time.
- Reduced segregation
- Facilitates concreting even below 5 °C

MITCHSET acts as a catalyst in the initial hydration reactions of the cement, particularly at low temperatures. The set is accelerated and mechanical resistance develops rapidly, which limits damage to fresh concrete caused by frost.

The use of **MITCHSET** does not mean that normal concrete practice when concreting in cold weather can be ignored.

PROPERTIES

Typical properties of material

Colors	Clear Solution, Color may change upon continuous exposure to UV light.
State of product	Liquid
Specific Gravity	1.25
PH	11
Odor	None
Solids	42%
Freezing point	0 ° C
Chloride content	NIL

DOSAGE

250 ml to 750 ml per 50 Kg bag of cement. Trial mixes are always suggested prior to use for your particular requirements.

DISPENSING

The correct quantity of **MITCHSET** should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

CURING

As with all structural concrete, good curing practice should be maintained. Water spray, wet hessian or a **HARDOCURE WB** spray applied curing membrane should be used.

PACKAGING

5, 25 and 210 kg containers

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COMPATIBILITY

MITCHSET is compatible with most admixtures from the range of MITCHELL. The effect of **MITCHSET** is dependent upon the cement properties and the type of plasticizers used in the concrete mix.

Trial mixes are always suggested prior to use for your particular requirements.

STORAGE

Shelf life is 1 year in unopened packs stored below 35°C in a shaded environment. The liquid component must not be allowed to freeze. If stored at high temperatures the shelf life will be reduced.

HEALTH & SAFETY

- Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs.
- Treat splashes to eyes and skin immediately.
- If accidentally ingested, seek immediate medical attention.
- Keep away from children and animals.
- Reseal containers after use. Do not reuse containers for storage of consumable items.
- MITCHSET is water based and non-flammable but should be stored away from combustible materials.

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